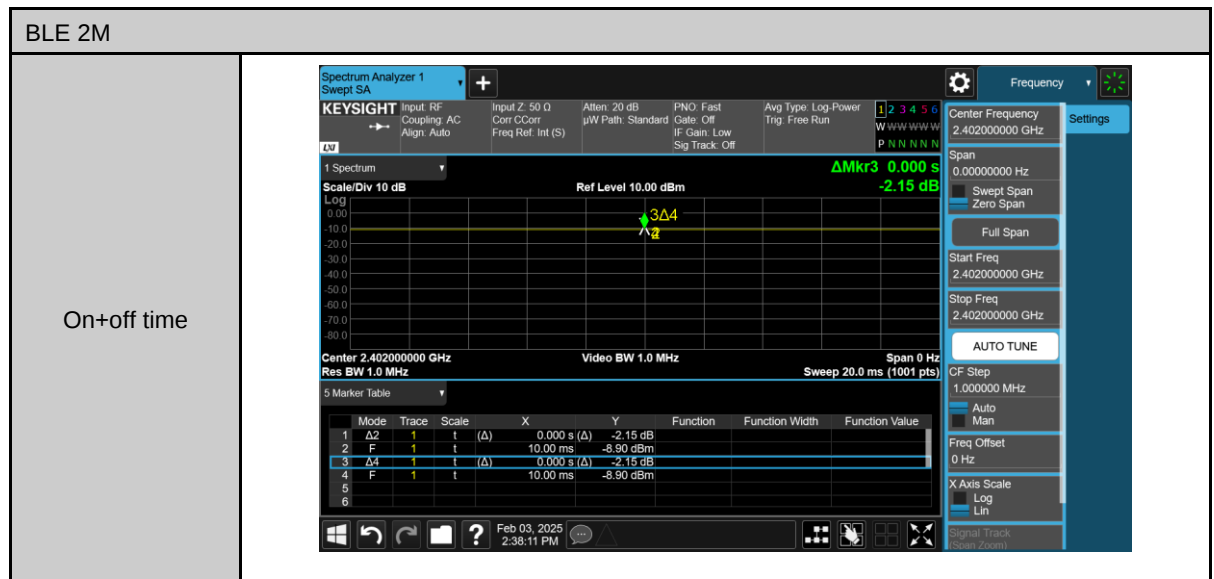
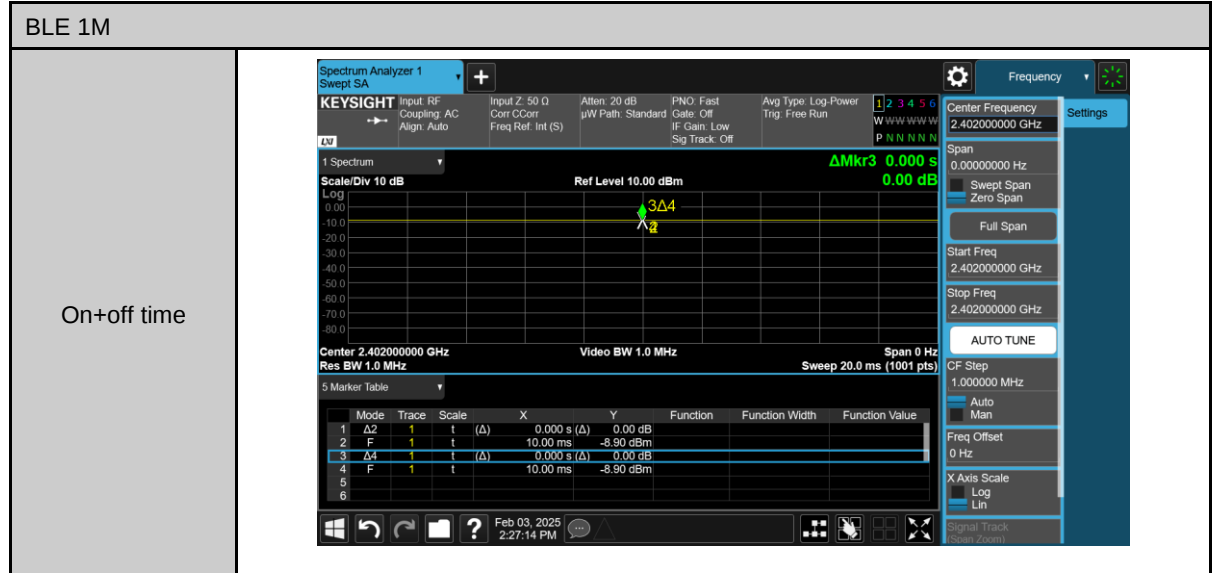


Appendix B. Test Plots

Duty cycle



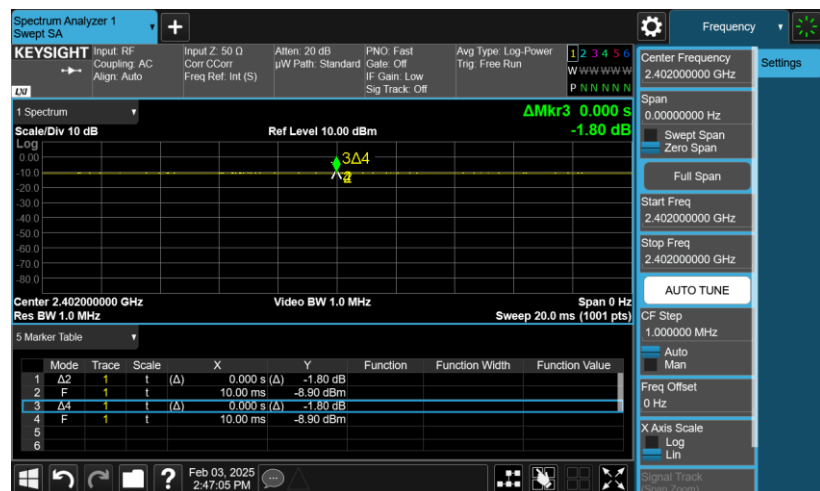
BLR C2

On+off time



BLR C8

On+off time



Out of Band Conducted Spurious Emission

BLE 2M

Low ch

Spectrum Analyzer 1
Swept SA

KEYSIGHT Input: RF Coupling: AC Input Z: 50 Ω Corr: Corr Freq Ref: Int (S) #Atten: 30 dB PNO: Fast Gate: Off Avg Type: Log-Power Trg: Free Run

1 Spectrum Scale/Div 10 dB Ref Lvl Offset 1.30 dB Ref Level 20.00 dBm Mkr2 24.678 5 GHz -40.72 dBm

Start 30 MHz #Res BW 100 kHz #Video BW 300 kHz Stop 25.00 GHz Sweep ~89.1 ms (40001 pts)

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	2.402 2 GHz	4.69 dBm		
2	N	1	f	24.678 5 GHz	-40.72 dBm		

Feb 10, 2025 2:47:42 PM

Mid ch

Spectrum Analyzer 1
Swept SA

KEYSIGHT Input: RF Coupling: AC Input Z: 50 Ω Corr: Corr Freq Ref: Int (S) #Atten: 30 dB PNO: Fast Gate: Off Avg Type: Log-Power Trg: Free Run

1 Spectrum Scale/Div 10 dB Ref Lvl Offset 1.30 dB Ref Level 20.00 dBm Mkr2 24.651 7 GHz -41.31 dBm

Start 30 MHz #Res BW 100 kHz #Video BW 300 kHz Stop 25.00 GHz Sweep ~89.1 ms (40001 pts)

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	2.440 2 GHz	5.71 dBm		
2	N	1	f	24.651 7 GHz	-41.31 dBm		

Feb 10, 2025 2:54:33 PM

High ch

Spectrum Analyzer 1
Swept SA

KEYSIGHT Input: RF Coupling: AC Input Z: 50 Ω Corr: Corr Freq Ref: Int (S) #Atten: 30 dB PNO: Fast Gate: Off Avg Type: Log-Power Trg: Free Run

1 Spectrum Scale/Div 10 dB Ref Lvl Offset 1.30 dB Ref Level 20.00 dBm Mkr2 24.621 1 GHz -40.93 dBm

Start 30 MHz #Res BW 100 kHz #Video BW 300 kHz Stop 25.00 GHz Sweep ~89.1 ms (40001 pts)

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	2.480 2 GHz	4.96 dBm		
2	N	1	f	24.621 1 GHz	-40.93 dBm		

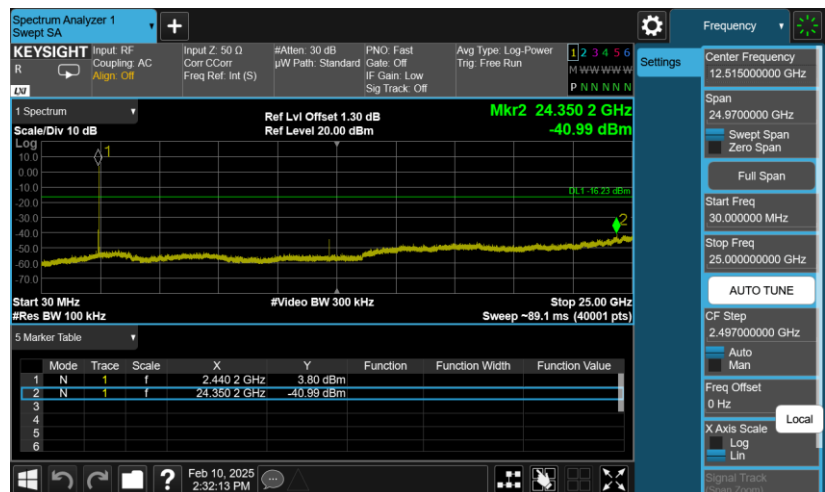
Feb 10, 2025 3:02:02 PM

BLR C8

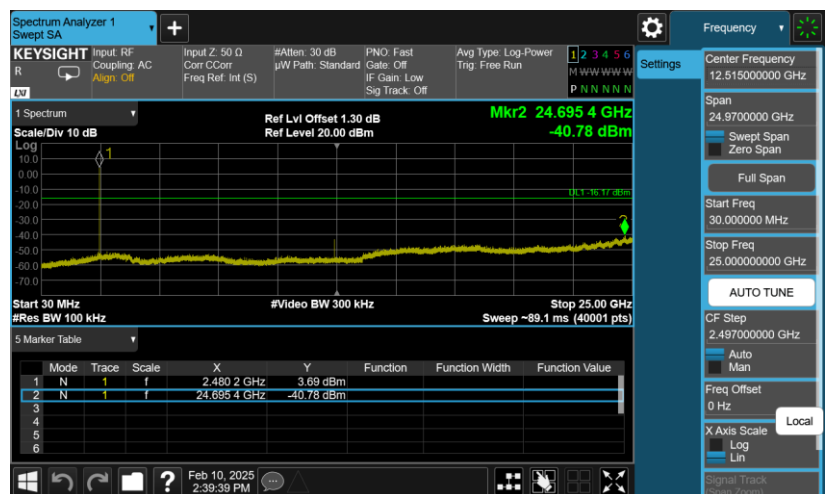
Low ch



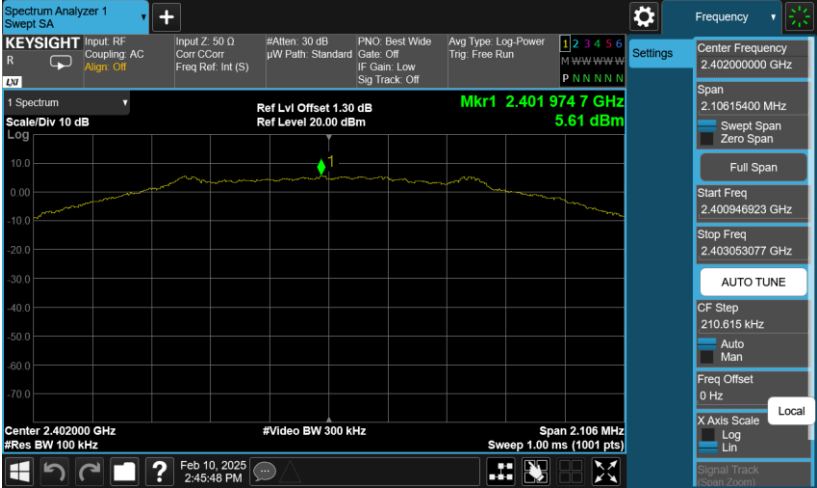
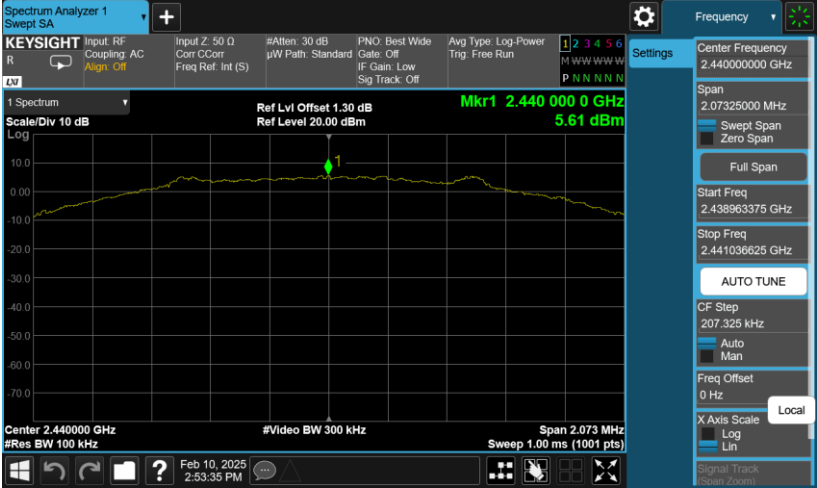
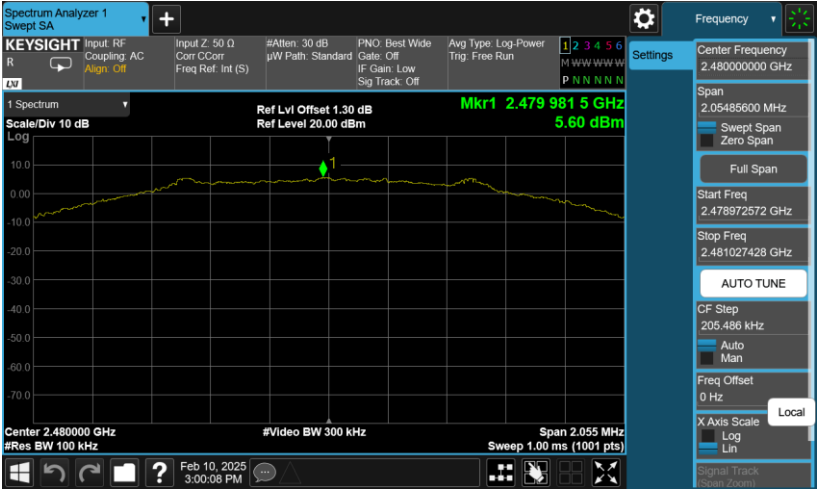
Mid ch

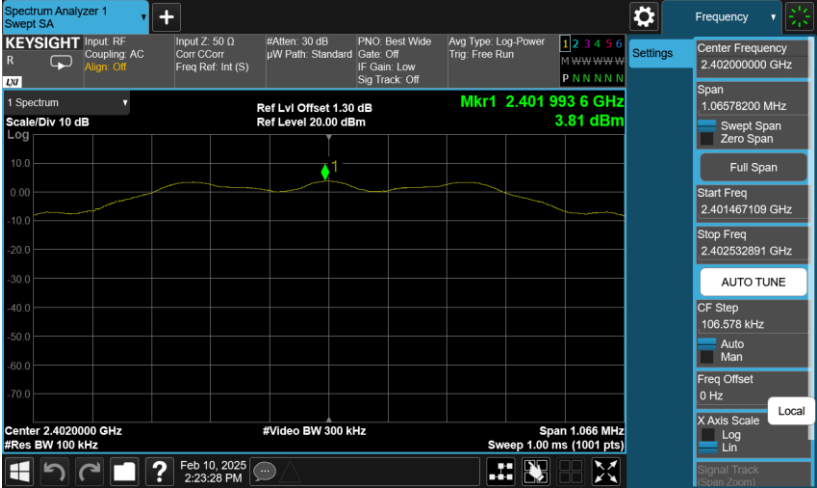
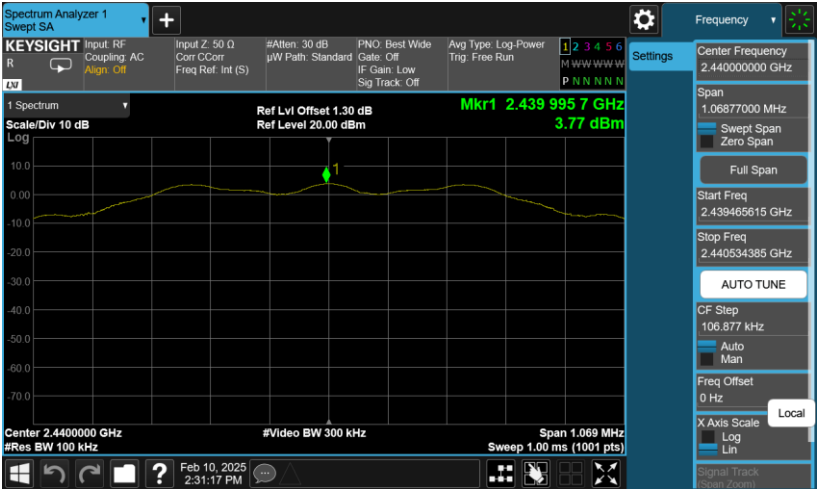
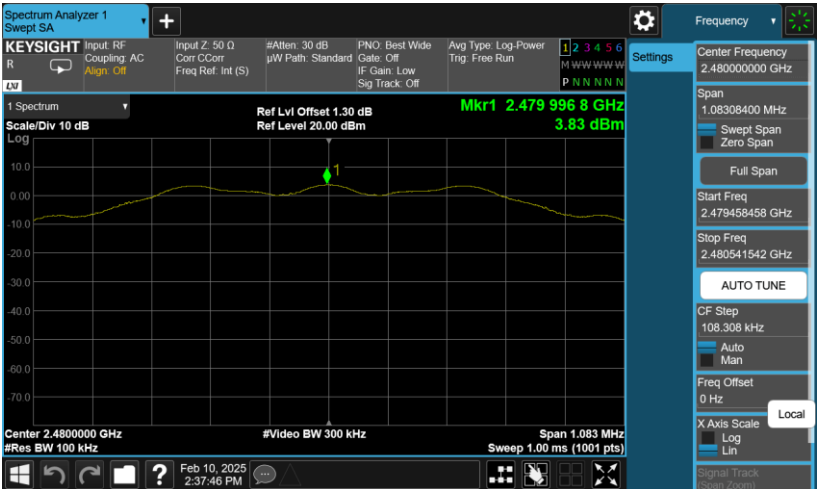


High ch



Reference level

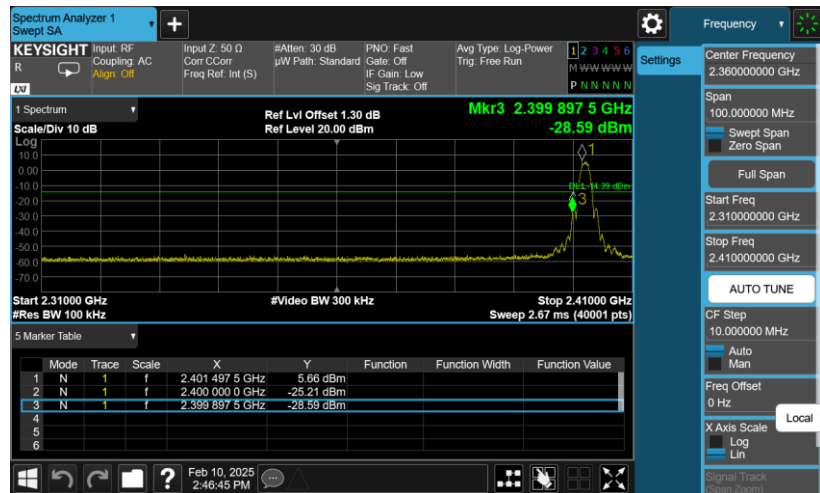
BLE 2M Low ch	
Mid ch	
High ch	

BLR C8	
Mid ch	
High ch	

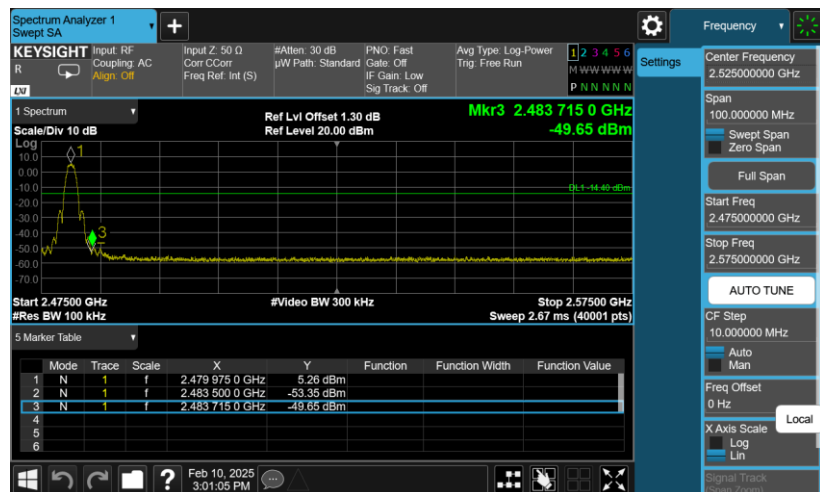
Conducted Band Edge

BLE 2M

Low ch

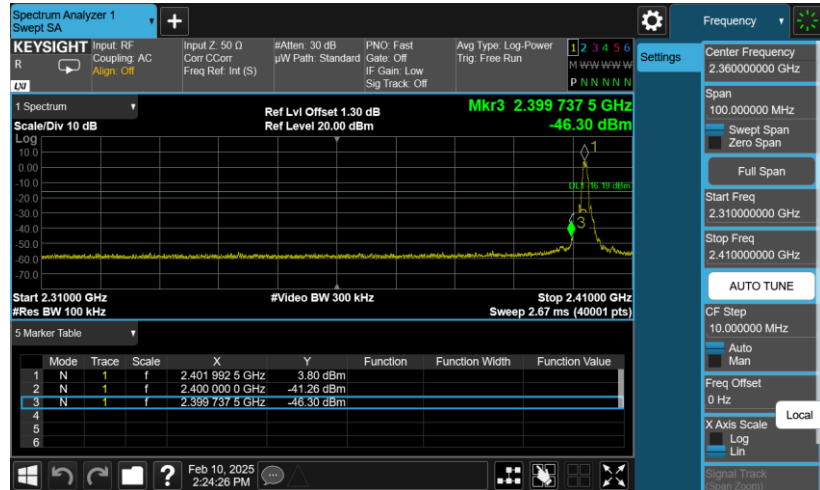


High ch

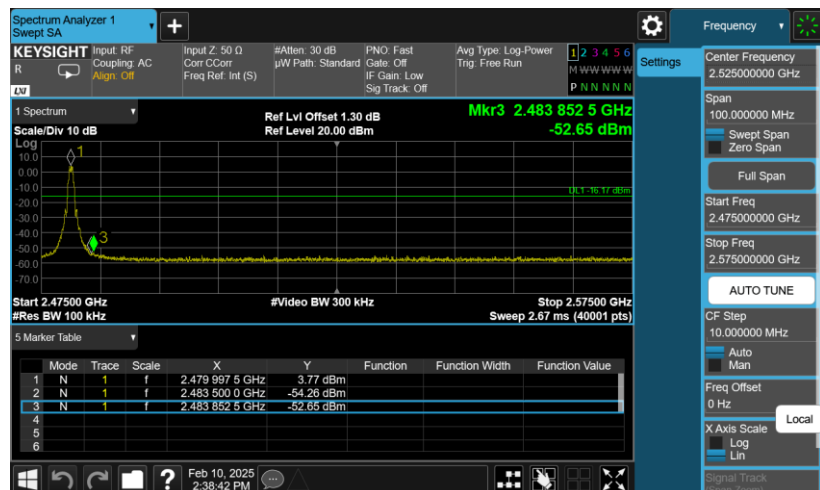


BLR C8

Low ch



High ch



6 dB Bandwidth

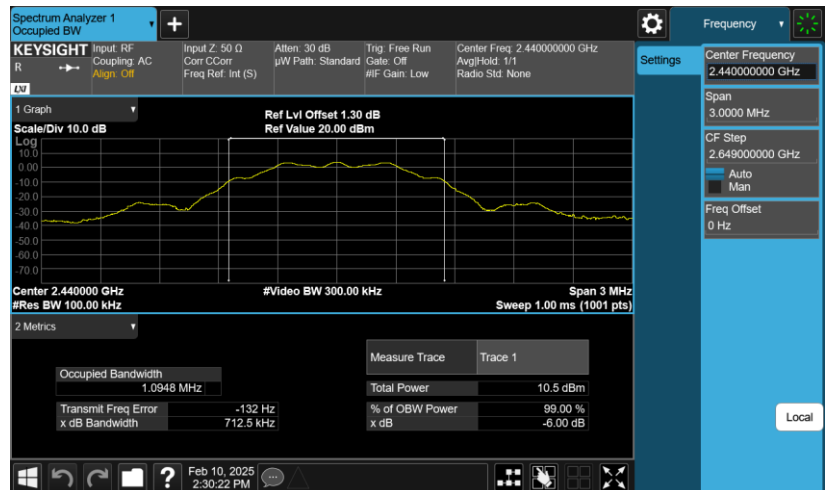
BLE 2M Low ch	
Mid ch	
High ch	

BLR C8

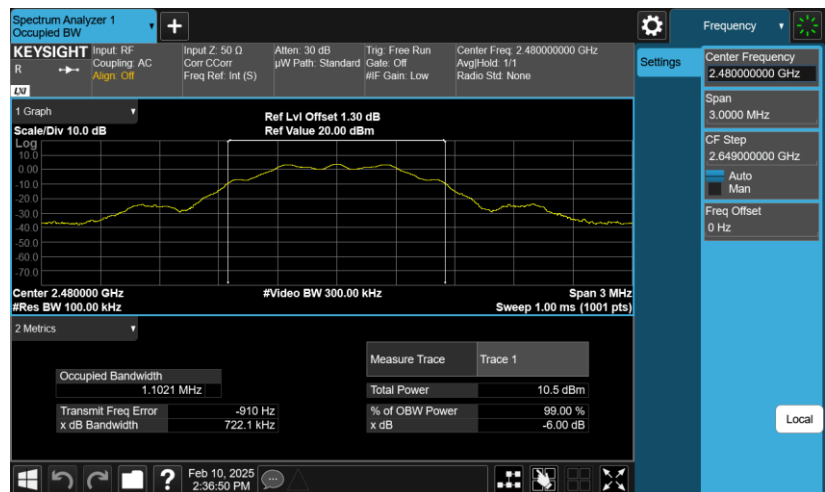
Low ch



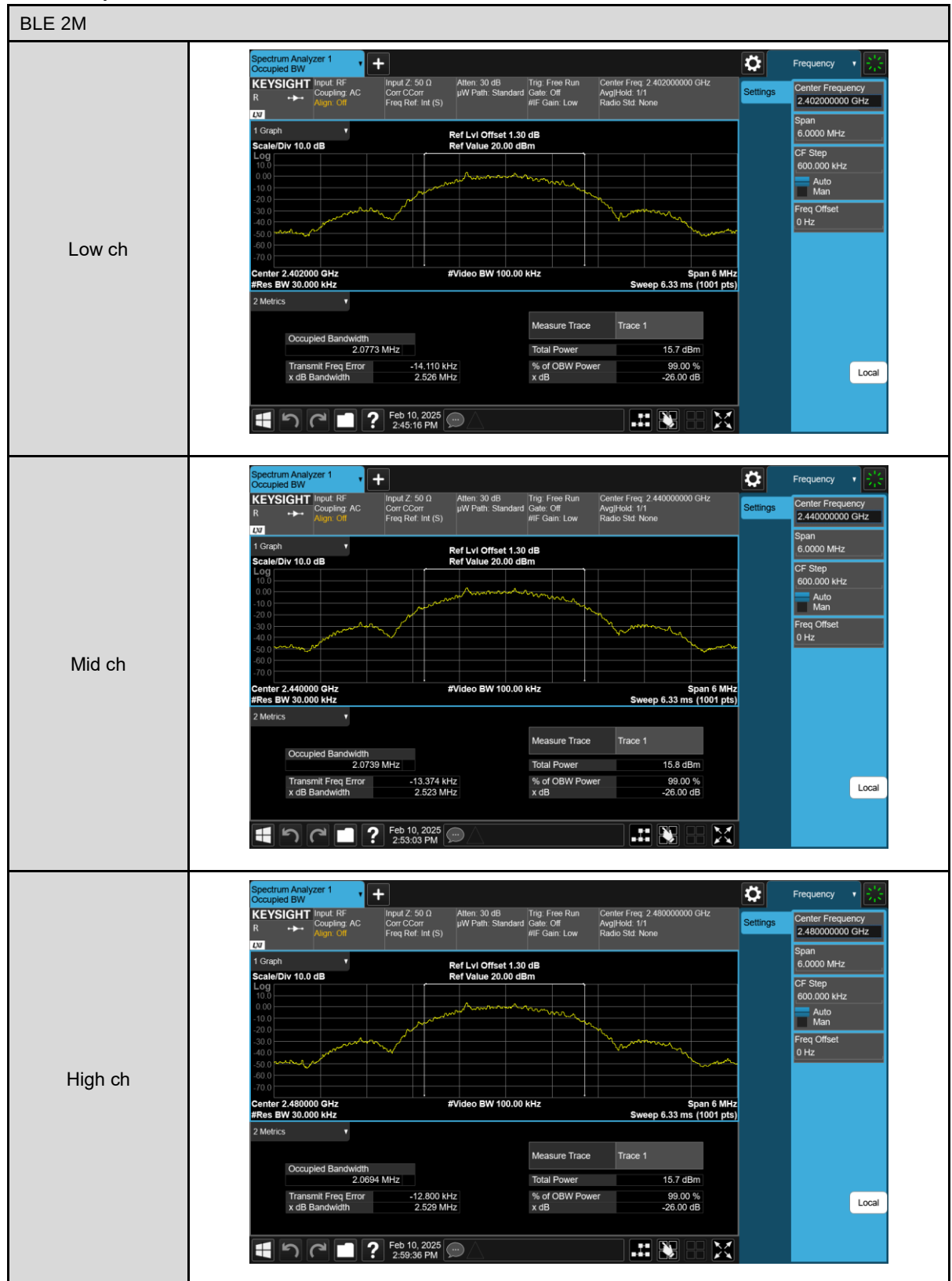
Mid ch



High ch

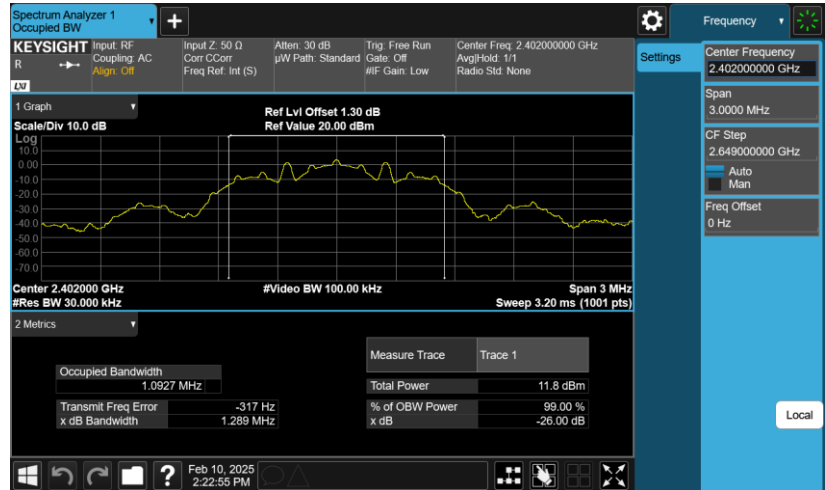


99 % Occupied Bandwidth

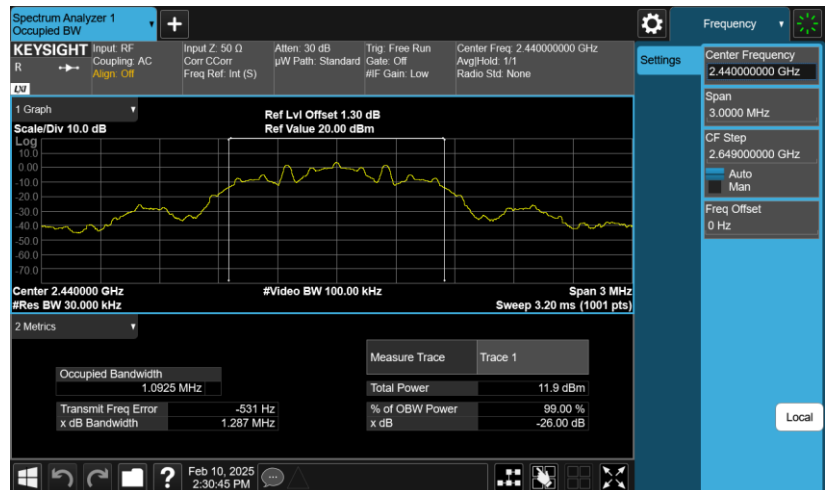


BLR C8

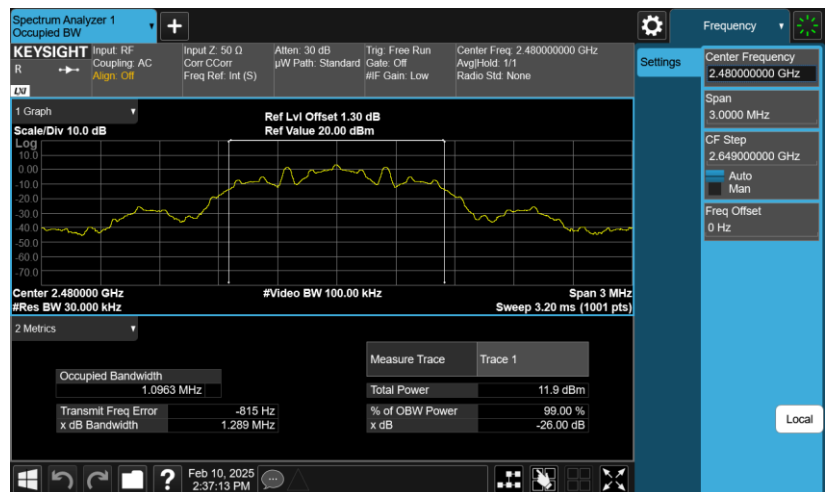
Low ch



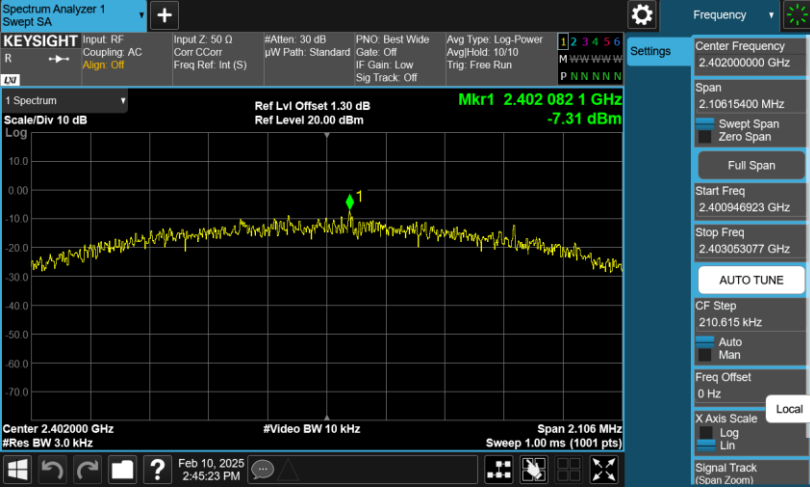
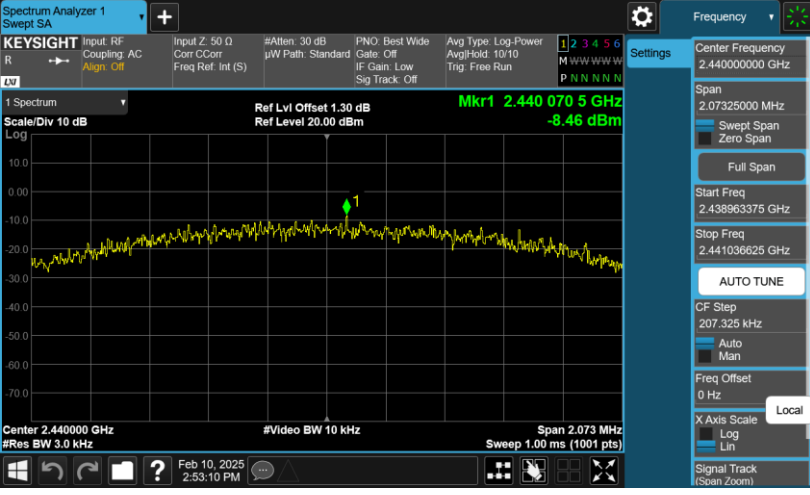
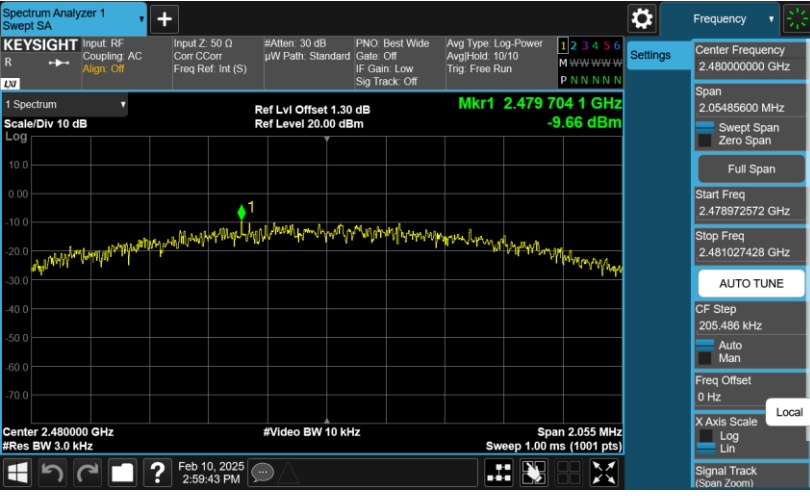
Mid ch

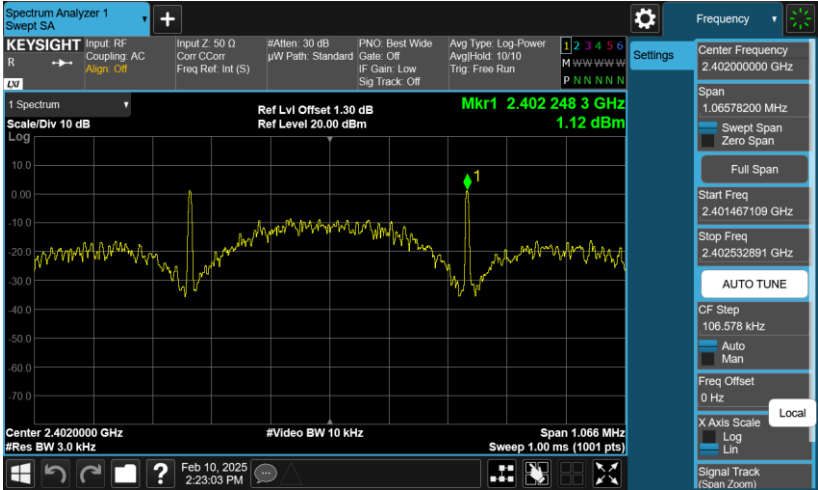
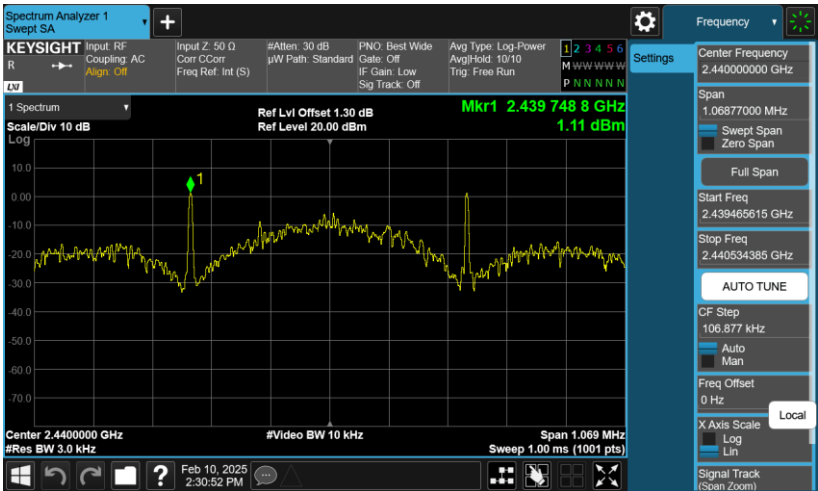


High ch



Power Density

BLE 2M Low ch	
Mid ch	
High ch	

BLR C8 Low ch	
Mid ch	
High ch	